

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730666

Luminaire Tested: **HBLED-LD5-24HE-N-CL-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-WG-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23385.0 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

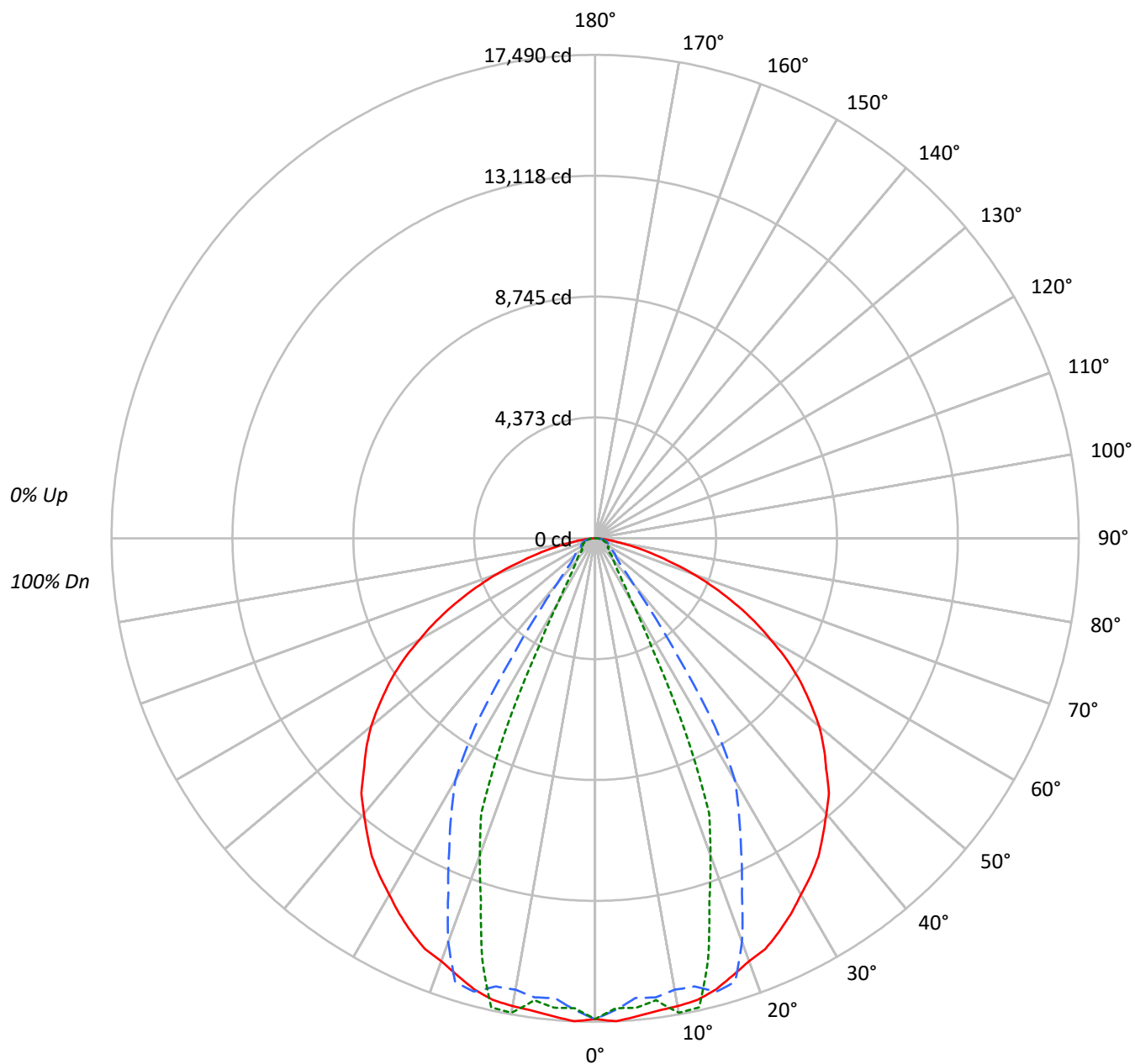
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	108	104	101	109	105	103	100	101	99	97		98	96	94		94
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86
3	97	89	82	77	95	87	81	76	84	79	75		82	77	74		79
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28086	28086	28086
5°	28132	27060	27630
10°	28173	27191	28586
15°	28236	28383	26380
20°	27968	26695	20939
25°	28009	22255	13678
30°	27758	18853	4913
35°	27728	10213	2764
40°	27415	4453	2165
45°	26991	2752	1697
50°	26570	2397	1602
55°	25526	2079	1567
60°	23683	1863	1685
65°	21288	2105	1841
70°	17853	2264	1898
75°	13347	2581	2055
80°	8382	2998	2343
85°	5582	3757	3431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1612.3	6.9
10°-20°	4552.7	19.5
20°-30°	5574.9	23.8
30°-40°	4378.0	18.7
40°-50°	3246.6	13.9
50°-60°	1976.4	8.5
60°-70°	1183.9	5.1
70°-80°	649.6	2.8
80°-90°	210.7	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11739.9	50.2
0°-40°	16117.9	68.9
0°-60°	21340.8	91.3
0°-90°	23385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17395	17395	17395	17395	17395	
5°	17357	16885	16696	16880	17048	###
15°	16892	16429	16980	16294	15782	4756
25°	15722	15771	12492	9798	7678	7237
35°	14068	12797	5182	1734	1402	8778
45°	11821	8488	1205	913	743	9141
55°	9068	2339	738	625	557	8070
65°	5572	689	551	518	482	5505
75°	2140	435	414	360	329	2317
85°	301	237	203	186	185	368
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17395.0	17395.0	17395.0	17395.0	17395.0
2.5°	17489.9	17254.2	17073.7	16972.9	17013.9
5°	17357.4	16884.9	16696.2	16880.3	17047.9
7.5°	17242.5	16540.3	16753.6	16770.1	16858.0
10°	17183.9	16507.5	16584.8	16949.4	17435.9
12.5°	17106.6	16583.7	16610.6	17107.7	17382.0
15°	16892.1	16428.9	16979.9	16294.1	15781.8
17.5°	16579.0	16067.8	16825.2	14434.8	13738.5
20°	16277.7	15675.1	15536.8	12858.0	12186.3
22.5°	16083.1	15615.4	13879.2	11457.1	10763.1
25°	15722.0	15771.3	12492.3	9798.2	7677.6
27.5°	15324.6	15404.3	11266.1	6534.6	4398.5
30°	14888.5	14980.0	10112.4	3861.6	2635.4
32.5°	14493.5	13977.6	8076.1	2409.1	1832.3
35°	14067.9	12797.0	5181.7	1733.9	1402.1
37.5°	13532.2	11556.7	3280.1	1371.6	1177.0
40°	13007.0	10443.1	2112.5	1171.1	1027.0
42.5°	12515.7	9525.1	1536.9	1023.5	927.4
45°	11820.6	8487.6	1205.2	913.2	743.2
47.5°	11219.2	7270.8	1053.9	772.6	641.3
50°	10577.8	5559.2	954.3	687.0	637.8
52.5°	9817.0	3636.5	881.6	657.7	595.5
55°	9067.9	2338.8	738.5	624.8	556.8
57.5°	8259.0	1483.0	651.9	606.0	581.4
60°	7334.1	1000.0	576.8	574.4	521.7
62.5°	6478.2	821.8	556.8	551.0	493.6
65°	5572.1	689.3	551.0	518.2	481.8
67.5°	4667.0	590.9	498.3	473.6	441.9
70°	3781.9	540.5	479.5	469.0	402.1
72.5°	2872.2	445.4	425.6	397.4	334.2
75°	2139.5	434.9	413.8	359.9	329.4
77.5°	1447.8	401.0	376.3	322.4	297.8
80°	901.5	368.1	322.4	282.5	252.0
82.5°	535.7	307.1	265.0	233.3	213.3
85°	301.3	236.8	202.8	186.4	185.2
87.5°	64.5	85.6	68.0	64.5	45.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)